

## ABSTRACT

A microfluidic device that comprises a microchannel structure in which there are one, two or more flow paths (101;201a,b;301a,a',b) all of which comprises a porous bed I (104,204,304) that is common for all of the flow paths and exposes an immobilized reactant R that is capable of interacting with a solute S that passes through the bed. The characteristics are that at least one of the flow paths comprises/comprise a second porous bed II (105,205,305) that is placed upstream of porous bed I (104,204,304) and is dummy with respect to interaction with solute S but capable of interacting with a substance DS that is present in a liquid aliquot together with solute S and is capable of disturbing the result of the interaction between solute S and said immobilized reactant R. There is also disclosed a method utilizing the device and variant of the device in which the immobilized R is replaced with a generic affinity ligand  $L_I$  and/or porous bed II exposes a generic ligand  $L_{II}$  that may be different from  $L_I$ .